

Daniel Navajas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1029448/publications.pdf>

Version: 2024-02-01

239
papers

37,647
citations

20817

60
h-index

2953

189
g-index

244
all docs

244
docs citations

244
times ranked

33177
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical modeling of lung alveoli: From macroscopic behaviour to cell mechano-sensing at microscopic level. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 126, 105043.	3.1	5
2	Novel Decellularization Method for Tissue Slices. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 832178.	4.1	15
3	Condensation of the Drosophila nerve cord is oscillatory and depends on coordinated mechanical interactions. <i>Developmental Cell</i> , 2022, 57, 867-882.e5.	7.0	12
4	Involvement of Mechanical Cues in the Migration of Cajal-Retzius Cells in the Marginal Zone During Neocortical Development. <i>Frontiers in Cell and Developmental Biology</i> , 2022, 10, .	3.7	6
5	Bioprinting Decellularized Breast Tissue for the Development of Three-Dimensional Breast Cancer Models. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29467-29482.	8.0	25
6	Photodynamic Therapy in the Extracellular Matrix of Mouse Lungs: Preliminary Results of an Alternative Tissue Sterilization Process. <i>International Journal of Photoenergy</i> , 2021, 2021, 1-9.	2.5	1
7	Realizing the actual magnitudes of aortic diameter and cardiac output: a multisensory learning approach. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2021, 45, 322-326.	1.6	0
8	Bioprintable Lung Extracellular Matrix Hydrogel Scaffolds for 3D Culture of Mesenchymal Stromal Cells. <i>Polymers</i> , 2021, 13, 2350.	4.5	26
9	Image-Based Method to Quantify Decellularization of Tissue Sections. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8399.	4.1	7
10	Development of Cell-Derived Matrices for Three-Dimensional <i>In Vitro</i> Cancer Cell Models. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 44108-44123.	8.0	14
11	Baseline Stiffness Modulates the Non-Linear Response to Stretch of the Extracellular Matrix in Pulmonary Fibrosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12928.	4.1	17
12	Characterization of the elastic properties of extracellular matrix models by atomic force microscopy. <i>Methods in Cell Biology</i> , 2020, 156, 59-83.	1.1	7
13	First-in-human PeriCord cardiac bioimplant: Scalability and GMP manufacturing of an allogeneic engineered tissue graft. <i>EBioMedicine</i> , 2020, 54, 102729.	6.1	27
14	Biophysically Preconditioning Mesenchymal Stem Cells Improves Treatment of Ventilator-Induced Lung Injury. <i>Archivos De Bronconeumologia</i> , 2020, 56, 179-181.	0.8	2
15	Lung cancer aggressiveness in an intermittent hypoxia murine model of postmenopausal sleep apnea. <i>Menopause</i> , 2020, 27, 706-713.	2.0	13
16	Silk-Reinforced Collagen Hydrogels with Raised Multiscale Stiffness for Mesenchymal Cells 3D Culture. <i>Tissue Engineering - Part A</i> , 2020, 26, 358-370.	3.1	33
17	Low-cost, easy-to-build noninvasive pressure support ventilator for under-resourced regions: open source hardware description, performance and feasibility testing. <i>European Respiratory Journal</i> , 2020, 55, 2000846.	6.7	58
18	Biophysically Preconditioning Mesenchymal Stem Cells Improves Treatment of Ventilator-Induced Lung Injury. <i>Archivos De Bronconeumologia</i> , 2020, 56, 179-181.	0.8	12

#	ARTICLE	IF	CITATIONS
19	Bioprinted 3D Model to Study the Crosstalk Between Lung Mesenchymal Stem Cells and Lung Extracellular Matrix. , 2019, , .		0
20	Biomechanical Response of Lung Epithelial Cells to Iron Oxide and Titanium Dioxide Nanoparticles. Frontiers in Physiology, 2019, 10, 1047.	2.8	10
21	Easy-to-Build and Affordable CPAP Device for Low-Income Countries: Open-Source Hardware Description and Bench Test Performance. , 2019, , .		0
22	Effects of Sustained and Intermittent Hypoxia on Human Lung Cancer Cells. American Journal of Respiratory Cell and Molecular Biology, 2019, 61, 540-544.	2.9	43
23	Proteomics Analysis of Extracellular Matrix Remodeling During Zebrafish Heart Regeneration. Molecular and Cellular Proteomics, 2019, 18, 1745-1755.	3.8	51
24	Nonlinear elasticity of the lung extracellular microenvironment is regulated by macroscale tissue strain. Acta Biomaterialia, 2019, 92, 265-276.	8.3	49
25	Leaves of isoprene-emitting tobacco plants maintain PSII stability at high temperatures. New Phytologist, 2019, 223, 1307-1318.	7.3	38
26	Easy-to-build and affordable continuous positive airway pressure CPAP device for adult patients in low-income countries. European Respiratory Journal, 2019, 53, 1802290.	6.7	12
27	Differential Oxygenation in Tumor Microenvironment Modulates Macrophage and Cancer Cell Crosstalk: Novel Experimental Setting and Proof of Concept. Frontiers in Oncology, 2019, 9, 43.	2.8	56
28	An in-vitro study to evaluate high-volume low-pressure endotracheal tube cuff deflation dynamics. Minerva Anestesiologica, 2019, 85, 846-853.	1.0	3
29	Fifteen years of <i>Servitudo et Grandeur</i> to the application of a biophysical technique in medicine: The tale of AFMBioMed. Journal of Molecular Recognition, 2019, 32, e2773.	2.1	4
30	Escherichia coli lipopolysaccharide induces alveolar epithelial cell stiffening. Journal of Biomechanics, 2019, 83, 315-318.	2.1	5
31	Novel Approach for Providing Pediatric Continuous Positive Airway Pressure Devices in Low-Income, Underresourced Regions. American Journal of Respiratory and Critical Care Medicine, 2019, 199, 118-120.	5.6	12
32	Telematic Multi-physician Decision-making for Improving CPAP Prescription in Sleep Apnoea. Archivos De Bronconeumologia, 2019, 55, 604-606.	0.8	2
33	A comprehensive evaluation of popular proteomics software workflows for label-free proteome quantification and imputation. Briefings in Bioinformatics, 2018, 19, 1344-1355.	6.5	88
34	Bioengineered Lungs: A Challenge and An Opportunity. Archivos De Bronconeumologia, 2018, 54, 31-38.	0.8	3
35	Bioengineered Lungs: A Challenge and An Opportunity. Archivos De Bronconeumologia, 2018, 54, 31-38.	0.8	13
36	The local microenvironment limits the regenerative potential of the mouse neonatal heart. Science Advances, 2018, 4, eaao5553.	10.3	124

#	ARTICLE	IF	CITATIONS
37	Head-to-head comparison of two engineered cardiac grafts for myocardial repair: From scaffold characterization to pre-clinical testing. <i>Scientific Reports</i> , 2018, 8, 6708.	3.3	45
38	Bidirectional mechanobiology between cells and their local extracellular matrix probed by atomic force microscopy. <i>Seminars in Cell and Developmental Biology</i> , 2018, 73, 71-81.	5.0	63
39	Is Telemedicine a Key Tool for Improving Continuous Positive Airway Pressure Adherence in Patients with Sleep Apnea?. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 197, 12-14.	5.6	19
40	Passive Stiffness of Left Ventricular Myocardial Tissue Is Reduced by Ovariectomy in a Post-menopause Mouse Model. <i>Frontiers in Physiology</i> , 2018, 9, 1545.	2.8	8
41	Gas Partial Pressure in Cultured Cells: Patho-Physiological Importance and Methodological Approaches. <i>Frontiers in Physiology</i> , 2018, 9, 1803.	2.8	34
42	Intermittent Hypoxia Severity in Animal Models of Sleep Apnea. <i>Frontiers in Physiology</i> , 2018, 9, 1556.	2.8	47
43	Intermittent Hypoxia Mimicking Sleep Apnea Increases Passive Stiffness of Myocardial Extracellular Matrix. A Multiscale Study. <i>Frontiers in Physiology</i> , 2018, 9, 1143.	2.8	32
44	Alzheimer's Disease Mutant Mice Exhibit Reduced Brain Tissue Stiffness Compared to Wild-type Mice in both Normoxia and following Intermittent Hypoxia Mimicking Sleep Apnea. <i>Frontiers in Neurology</i> , 2018, 9, 1.	2.4	250
45	Ageing Reduces Intermittent Hypoxia-induced Lung Carcinoma Growth in a Mouse Model of Sleep Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 1234-1236.	5.6	21
46	A Portable Continuous Positive Airway Pressure Device That Can Perform Optimally under Strenuous Conditions. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 956-958.	5.6	0
47	Mechanical Preconditioning of Lung Mesenchymal Stem Cells Improves Ventilation Induced Lung Injury in Rats. , 2018, , .		1
48	Late Breaking Abstract - Lung extracellular matrix hydrogel as bioink for 3D bioprinting: a model for studying cell-matrix crosstalk. , 2018, , .		0
49	Iron Oxide and Titanium Dioxide Nanoparticles Reduce Alveolar Epithelial Cell Stiffening and Contraction Forces. , 2018, , .		0
50	A New mHealth application to support treatment of sleep apnoea patients. <i>Journal of Telemedicine and Telecare</i> , 2017, 23, 14-18.	2.7	43
51	Ageing and chronic intermittent hypoxia mimicking sleep apnea do not modify local brain tissue stiffness in healthy mice. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 71, 106-113.	3.1	13
52	Role of Cyclooxygenase-2 on Intermittent Hypoxia-Induced Lung Tumor Malignancy in a Mouse Model of Sleep Apnea. <i>Scientific Reports</i> , 2017, 7, 44693.	3.3	38
53	Polarized cortical tension drives zebrafish epiboly movements. <i>EMBO Journal</i> , 2017, 36, 25-41.	7.8	28
54	Force Triggers YAP Nuclear Entry by Regulating Transport across Nuclear Pores. <i>Cell</i> , 2017, 171, 1397-1410.e14.	28.9	927

#	ARTICLE	IF	CITATIONS
55	Standardized Nanomechanical Atomic Force Microscopy Procedure (SNAP) for Measuring Soft and Biological Samples. <i>Scientific Reports</i> , 2017, 7, 5117.	3.3	195
56	Frequency and magnitude of intermittent hypoxia modulate endothelial wound healing in a cell culture model of sleep apnea. <i>Journal of Applied Physiology</i> , 2017, 123, 1047-1054.	2.5	22
57	Elastic properties of hydrogels and decellularized tissue sections used in mechanobiology studies probed by atomic force microscopy. <i>Microscopy Research and Technique</i> , 2017, 80, 85-96.	2.2	26
58	Probing Micromechanical Properties of the Extracellular Matrix of Soft Tissues by Atomic Force Microscopy. <i>Journal of Cellular Physiology</i> , 2017, 232, 19-26.	4.1	91
59	AFM and Microrheology in the Zebrafish Embryo Yolk Cell. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	1
60	Force loading explains spatial sensing of ligands by cells. <i>Nature</i> , 2017, 552, 219-224.	27.8	244
61	Effects of two different decellularization routes on the mechanical properties of decellularized lungs. <i>PLoS ONE</i> , 2017, 12, e0178696.	2.5	15
62	Novel Approach to Simulate Sleep Apnea Patients for Evaluating Positive Pressure Therapy Devices. <i>PLoS ONE</i> , 2016, 11, e0151530.	2.5	8
63	A Novel Chip for Cyclic Stretch and Intermittent Hypoxia Cell Exposures Mimicking Obstructive Sleep Apnea. <i>Frontiers in Physiology</i> , 2016, 7, 319.	2.8	42
64	Lung bioengineering: physical stimuli and stem/progenitor cell biology interplay towards biofabricating a functional organ. <i>Respiratory Research</i> , 2016, 17, 161.	3.6	19
65	Forced oscillation: A poorly exploited tool for simply assessing respiratory function in children. <i>Respirology</i> , 2016, 21, 982-983.	2.3	2
66	Finite element simulation for the mechanical characterization of soft biological materials by atomic force microscopy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 62, 222-235.	3.1	31
67	Technology for noninvasive mechanical ventilation: looking into the black box. <i>ERJ Open Research</i> , 2016, 2, 00004-2016.	2.6	13
68	Collective cell durotaxis emerges from long-range intercellular force transmission. <i>Science</i> , 2016, 353, 1157-1161.	12.6	484
69	Behavior of vascular resistance undergoing various pressure insufflation and perfusion on decellularized lungs. <i>Journal of Biomechanics</i> , 2016, 49, 1230-1232.	2.1	11
70	Early Impairment of Lung Mechanics in a Murine Model of Marfan Syndrome. <i>PLoS ONE</i> , 2016, 11, e0152124.	2.5	21
71	Fibroblast viability and phenotypic changes within glycated stiffened three-dimensional collagen matrices. <i>Respiratory Research</i> , 2015, 16, 82.	3.6	51
72	Comparative assessment of several automatic CPAP devices' responses: a bench test study. <i>ERJ Open Research</i> , 2015, 1, 00031-2015.	2.6	17

#	ARTICLE	IF	CITATIONS
73	Pressure- and flow-controlled media perfusion differently modify vascular mechanics in lung decellularization. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 49, 69-79.	3.1	28
74	Increased upper airway collapsibility in a mouse model of Marfan syndrome. <i>Respiratory Physiology and Neurobiology</i> , 2015, 207, 58-60.	1.6	7
75	Hydraulic fracture during epithelial stretching. <i>Nature Materials</i> , 2015, 14, 343-351.	27.5	122
76	Vascular Smooth Muscle Cell Phenotypic Changes in Patients With Marfan Syndrome. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015, 35, 960-972.	2.4	116
77	Intermittent hypoxia alters gut microbiota diversity in a mouse model of sleep apnoea. <i>European Respiratory Journal</i> , 2015, 45, 1055-1065.	6.7	199
78	Physical principles of membrane remodelling during cell mechanoadaptation. <i>Nature Communications</i> , 2015, 6, 7292.	12.8	91
79	Snail1-Expressing Fibroblasts in the Tumor Microenvironment Display Mechanical Properties That Support Metastasis. <i>Cancer Research</i> , 2015, 75, 284-295.	0.9	92
80	Parabiotic model for differentiating local and systemic effects of continuous and intermittent hypoxia. <i>Journal of Applied Physiology</i> , 2015, 118, 42-47.	2.5	5
81	In vitro comparative study of two decellularization protocols in search of an optimal myocardial scaffold for recellularization. <i>American Journal of Translational Research (discontinued)</i> , 2015, 7, 558-73.	0.0	37
82	Low oxygen tension enhances the generation of lung progenitor cells from mouse embryonic and induced pluripotent stem cells. <i>Physiological Reports</i> , 2014, 2, e12075.	1.7	25
83	Male Fertility Is Reduced by Chronic Intermittent Hypoxia Mimicking Sleep Apnea in Mice. <i>Sleep</i> , 2014, 37, 1757-1765.	1.1	61
84	Mechanical properties of mouse lungs along organ decellularization by sodium dodecyl sulfate. <i>Respiratory Physiology and Neurobiology</i> , 2014, 200, 1-5.	1.6	34
85	Effects of the Decellularization Method on the Local Stiffness of Acellular Lungs. <i>Tissue Engineering - Part C: Methods</i> , 2014, 20, 412-422.	2.1	51
86	Mechanical properties of acellular mouse lungs after sterilization by gamma irradiation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 40, 168-177.	3.1	31
87	Heterogeneous micromechanical properties of the extracellular matrix in healthy and infarcted hearts. <i>Acta Biomaterialia</i> , 2014, 10, 3235-3242.	8.3	51
88	Inhomogeneity of local stiffness in the extracellular matrix scaffold of fibrotic mouse lungs. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 37, 186-195.	3.1	50
89	Effects of freezing/thawing on the mechanical properties of decellularized lungs. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 413-419.	4.0	85
90	Brain Tissue Hypoxia and Oxidative Stress Induced by Obstructive Apneas is Different in Young and Aged Rats. <i>Sleep</i> , 2014, 37, 1249-1256.	1.1	29

#	ARTICLE	IF	CITATIONS
91	Forced Oscillation Technique. , 2014, , 137-148.		1
92	Telemedicine-Based Approach for Obstructive Sleep Apnea Management: Building Evidence. Interactive Journal of Medical Research, 2014, 3, e6.	1.4	41
93	Use of FOT for Optimising Mechanical Ventilation. , 2014, , 381-395.		0
94	Chronic intermittent hypoxia preserves bone density in a mouse model of sleep apnea. Respiratory Physiology and Neurobiology, 2013, 189, 646-648.	1.6	16
95	Local micromechanical properties of decellularized lung scaffolds measured with atomic force microscopy. Acta Biomaterialia, 2013, 9, 6852-6859.	8.3	77
96	Intermittent hypoxia increases melanoma metastasis to the lung in a mouse model of sleep apnea. Respiratory Physiology and Neurobiology, 2013, 186, 303-307.	1.6	143
97	Development of a Three-Dimensional Bone-Like Construct in a Soft Self-Assembling Peptide Matrix. Tissue Engineering - Part A, 2013, 19, 870-881.	3.1	29
98	Antioxidant effect of human adult adipose-derived stromal stem cells in alveolar epithelial cells undergoing stretch. Respiratory Physiology and Neurobiology, 2013, 188, 1-8.	1.6	14
99	Is There an Optimal Nasal Pressure for Treating Obstructive Sleep Apnea? And If So, What Is It?. Sleep, 2013, 36, 463-4.	1.1	2
100	Barrier-Protective Effects of Activated Protein C in Human Alveolar Epithelial Cells. PLoS ONE, 2013, 8, e56965.	2.5	22
101	Cost-Effectiveness of a New Internet-Based Monitoring Tool for Neonatal Post-Discharge Home Care. Journal of Medical Internet Research, 2013, 15, e38.	4.3	16
102	Intermittent hypoxia enhances cancer progression in a mouse model of sleep apnoea. European Respiratory Journal, 2012, 39, 215-217.	6.7	190
103	Pre-treatment with mesenchymal stem cells reduces ventilator-induced lung injury. European Respiratory Journal, 2012, 40, 939-948.	6.7	45
104	Mechanobiology in Lung Epithelial Cells: Measurements, Perturbations, and Responses. , 2012, 2, 1-29.		82
105	Actual performance of mechanical ventilators in ICU: a multicentric quality control study. Medical Devices: Evidence and Research, 2012, 5, 111.	0.8	12
106	Potential Role of Adult Stem Cells in Obstructive Sleep Apnea. Frontiers in Neurology, 2012, 3, 112.	2.4	18
107	Rapid detection of sepsis in rats through volatile organic compounds in breath. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2012, 881-882, 76-82.	2.3	36
108	Obesity and intermittent hypoxia increase tumor growth in a mouse model of sleep apnea. Sleep Medicine, 2012, 13, 1254-1260.	1.6	117

#	ARTICLE	IF	CITATIONS
109	Integrin-Specific Mechanoresponses to Compression and Extension Probed by Cylindrical Flat-Ended AFM Tips in Lung Cells. PLoS ONE, 2012, 7, e32261.	2.5	31
110	A bioreactor for subjecting cultured cells to fast-rate intermittent hypoxia. Respiratory Physiology and Neurobiology, 2012, 182, 47-52.	1.6	16
111	Telemetric CPAP titration at home in patients with sleep apnea—hypopnea syndrome. Sleep Medicine, 2011, 12, 153-157.	1.6	32
112	Early and mid-term effects of obstructive apneas in myocardial injury and inflammation. Sleep Medicine, 2011, 12, 1037-1040.	1.6	24
113	Tissue Oxygenation in Brain, Muscle, and Fat in a Rat Model of Sleep Apnea: Differential Effect of Obstructive Apneas and Intermittent Hypoxia. Sleep, 2011, 34, 1127-1133.	1.1	93
114	Anti-Inflammatory Role Of Peroxisome Proliferator-Activated Receptor-Gamma (PPARGamma) Agonist On Human Microvascular Endothelial Cells Treated With An Inflammatory Factor. , 2011, , .		0
115	Non-invasive system for applying airway obstructions to model obstructive sleep apnea in mice. Respiratory Physiology and Neurobiology, 2011, 175, 164-168.	1.6	16
116	Alternating ventilation in a rat model of increased abdominal pressure. Respiratory Physiology and Neurobiology, 2011, 175, 310-315.	1.6	1
117	Mesenchymal stem cells reduce inflammation in a rat model of obstructive sleep apnea. Respiratory Physiology and Neurobiology, 2010, 172, 210-212.	1.6	21
118	Changes in oxygen partial pressure of brain tissue in an animal model of obstructive apnea. Respiratory Research, 2010, 11, 3.	3.6	33
119	Obstructive apneas induce early activation of mesenchymal stem cells and enhancement of endothelial wound healing. Respiratory Research, 2010, 11, 91.	3.6	22
120	Sleep Breathing Flow Characteristics as a Sign for the Detection of Wakefulness in Patients with Sleep Apnea. Respiration, 2010, 80, 495-499.	2.6	7
121	Electroencephalographic slowing heralds mild cognitive impairment in idiopathic REM sleep behavior disorder. Sleep Medicine, 2010, 11, 534-539.	1.6	97
122	Improved Peripheral Neutrophil Stiffening in Very Severe COPD Patients after Lung Transplantation.. , 2009, , .		0
123	Obstructive Apneas Induce Early Release of Mesenchymal Stem Cells into Circulating Blood. Sleep, 2009, , .	1.1	16
124	Thermal activation and ATP dependence of the cytoskeleton remodeling dynamics. Physical Review E, 2009, 79, 051920.	2.1	19
125	Respiratory impedance during weaning from mechanical ventilation in a mixed population of critically ill patients. British Journal of Anaesthesia, 2009, 103, 828-832.	3.4	11
126	Quality control: a necessary, but sometimes overlooked, tool for improving respiratory medicine. European Respiratory Journal, 2009, 33, 722-723.	6.7	7

#	ARTICLE	IF	CITATIONS
127	Stiffening and Contraction Induced by Dexamethasone in Alveolar Epithelial Cells. <i>Experimental Mechanics</i> , 2009, 49, 47-55.	2.0	10
128	Biological consequences of oxygen desaturation and respiratory effort in an acute animal model of obstructive sleep apnea (OSA). <i>Sleep Medicine</i> , 2009, 10, 892-897.	1.6	39
129	The temperature dependence of cell mechanics measured by atomic force microscopy. <i>Physical Biology</i> , 2009, 6, 025009.	1.8	64
130	A Novel Simple Internet-Based System for Real Time Monitoring and Optimizing Home Mechanical Ventilation. , 2009, , .		14
131	Obstructive apneas induce early release of mesenchymal stem cells into circulating blood. <i>Sleep</i> , 2009, 32, 117-9.	1.1	32
132	Assessment of upper airway mechanics during sleep. <i>Respiratory Physiology and Neurobiology</i> , 2008, 163, 74-81.	1.6	18
133	Micropatterning of Single Endothelial Cell Shape Reveals a Tight Coupling between Nuclear Volume in G1 and Proliferation. <i>Biophysical Journal</i> , 2008, 94, 4984-4995.	0.5	168
134	Mapping Cell-Matrix Stresses during Stretch Reveals Inelastic Reorganization of the Cytoskeleton. <i>Biophysical Journal</i> , 2008, 95, 464-471.	0.5	70
135	One-lung overventilation does not induce inflammation in the normally ventilated contralateral lung. <i>Respiratory Physiology and Neurobiology</i> , 2008, 162, 100-102.	1.6	9
136	Definition of COPD: based on evidence or opinion?. <i>European Respiratory Journal</i> , 2008, 31, 681-682.	6.7	40
137	Upper airway collapse and reopening induce inflammation in a sleep apnoea model. <i>European Respiratory Journal</i> , 2008, 32, 399-404.	6.7	50
138	Morbidity due to obstructive sleep apnea: insights from animal models. <i>Current Opinion in Pulmonary Medicine</i> , 2008, 14, 530-536.	2.6	33
139	Continuous Positive Airway Pressure (CPAP) Induces Early Nasal Inflammation. <i>Sleep</i> , 2008, 31, 127-131.	1.1	28
140	Rat Model of Chronic Recurrent Airway Obstructions to Study the Sleep Apnea Syndrome. <i>Sleep</i> , 2007, 30, 930-933.	1.1	74
141	Automatic control of tracheal tube cuff pressure in ventilated patients in semirecumbent position: A randomized trial*. <i>Critical Care Medicine</i> , 2007, 35, 1543-1549.	0.9	201
142	Upper-Airway Inflammation Triggered by Vibration in a Rat Model of Snoring. <i>Sleep</i> , 2007, 30, 225-227.	1.1	67
143	Cell dynamic adhesion and elastic properties probed with cylindrical atomic force microscopy cantilever tips. <i>Journal of Molecular Recognition</i> , 2007, 20, 459-466.	2.1	40
144	Past, present and future of atomic force microscopy in life sciences and medicine. <i>Journal of Molecular Recognition</i> , 2007, 20, 418-431.	2.1	165

#	ARTICLE	IF	CITATIONS
145	Universal physical responses to stretch in the living cell. <i>Nature</i> , 2007, 447, 592-595.	27.8	626
146	Rheology of Passive and Adhesion-Activated Neutrophils Probed by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2006, 91, 3508-3518.	0.5	85
147	Thrombin-induced contraction in alveolar epithelial cells probed by traction microscopy. <i>Journal of Applied Physiology</i> , 2006, 101, 512-520.	2.5	41
148	Bench Model To Simulate Upper Airway Obstruction for Analyzing Automatic Continuous Positive Airway Pressure Devices. <i>Chest</i> , 2006, 130, 350-361.	0.8	60
149	Effect of stretch on structural integrity and micromechanics of human alveolar epithelial cell monolayers exposed to thrombin. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006, 290, L1104-L1110.	2.9	27
150	Noninvasive detection of expiratory flow limitation in COPD patients during nasal CPAP. <i>European Respiratory Journal</i> , 2006, 27, 983-991.	6.7	75
151	Performance of mechanical ventilators at the patient's home: a multicentre quality control study. <i>Thorax</i> , 2006, 61, 400-404.	5.6	46
152	Thrombin and histamine induce stiffening of alveolar epithelial cells. <i>Journal of Applied Physiology</i> , 2005, 98, 1567-1574.	2.5	59
153	Nanomechanics of lung epithelial cells. <i>International Journal of Nanotechnology</i> , 2005, 2, 180.	0.2	7
154	Animal model of unilateral ventilator-induced lung injury. <i>Intensive Care Medicine</i> , 2005, 31, 487-490.	8.2	21
155	Vibration Enhances Interleukin-8 Release in a Cell Model of Snoring-Induced Airway Inflammation. <i>Sleep</i> , 2005, 28, 1312-1316.	1.1	79
156	Effect of Using the Flow or the Volume Signals on the Measurement of Nonapneic Respiratory Events. <i>Sleep</i> , 2005, 28, 990-992.	1.1	3
157	Standardisation of the measurement of lung volumes. <i>European Respiratory Journal</i> , 2005, 26, 511-522.	6.7	2,253
158	Standardisation of the single-breath determination of carbon monoxide uptake in the lung. <i>European Respiratory Journal</i> , 2005, 26, 720-735.	6.7	1,925
159	General considerations for lung function testing. <i>European Respiratory Journal</i> , 2005, 26, 153-161.	6.7	1,661
160	Standardisation of spirometry. <i>European Respiratory Journal</i> , 2005, 26, 319-338.	6.7	12,939
161	Interpretative strategies for lung function tests. <i>European Respiratory Journal</i> , 2005, 26, 948-968.	6.7	4,712
162	Probing mechanical properties of living cells by atomic force microscopy with blunted pyramidal cantilever tips. <i>Physical Review E</i> , 2005, 72, 021914.	2.1	316

#	ARTICLE	IF	CITATIONS
163	Stability of Microfabricated High Aspect Ratio Structures in Poly(dimethylsiloxane). <i>Langmuir</i> , 2005, 21, 5542-5548.	3.5	132
164	Assessment of expiratory flow limitation in chronic obstructive pulmonary disease: a new approach. <i>European Respiratory Journal</i> , 2004, 23, 187-188.	6.7	6
165	Viscoelasticity of human alveolar epithelial cells subjected to stretch. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2004, 287, L1025-L1034.	2.9	132
166	Noninvasive monitoring of respiratory mechanics during sleep. <i>European Respiratory Journal</i> , 2004, 24, 1052-1060.	6.7	88
167	Cytoskeletal mechanics in adherent human airway smooth muscle cells: probe specificity and scaling of protein-protein dynamics. <i>American Journal of Physiology - Cell Physiology</i> , 2004, 287, C643-C654.	4.6	85
168	Oxygen in the alveolar air space mediates lung inflammation in acute pancreatitis. <i>Free Radical Biology and Medicine</i> , 2004, 37, 1640-1647.	2.9	9
169	Oscillometric assessment of airway obstruction in a mechanical model of vocal cord dysfunction. <i>Journal of Biomechanics</i> , 2004, 37, 37-43.	2.1	21
170	Quality control of mechanical ventilation at the patient's home. <i>Intensive Care Medicine</i> , 2003, 29, 484-486.	8.2	23
171	Microrheology of Human Lung Epithelial Cells Measured by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2003, 84, 2071-2079.	0.5	630
172	How to use the nasal pressure in clinical practice. <i>Sleep Medicine</i> , 2003, 4, 381-383.	1.6	4
173	Collapsible upper airway segment to study the obstructive sleep apnea/hypopnea syndrome in rats. <i>Respiratory Physiology and Neurobiology</i> , 2003, 136, 199-209.	1.6	49
174	Time scale and other invariants of integrative mechanical behavior in living cells. <i>Physical Review E</i> , 2003, 68, 041914.	2.1	317
175	Unsupervised self-testing of airway obstruction by forced oscillation at the patient's home. <i>European Respiratory Journal</i> , 2003, 22, 668-671.	6.7	19
176	Static and Dynamic Upper Airway Obstruction in Sleep Apnea. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2003, 168, 659-663.	5.6	25
177	Protocolo para evaluar una CPAP automática. Valoración de la utilidad del Autoset-T para determinar la presión de CPAP óptima en el síndrome de apnea-hipopnea del sueño. <i>Archivos De Bronconeumología</i> , 2003, 39, 118-125.	0.8	8
178	Automatic regulation of the cuff pressure in endotracheally-intubated patients. <i>European Respiratory Journal</i> , 2002, 20, 1010-1013.	6.7	62
179	A portable forced oscillation device for respiratory home monitoring. <i>European Respiratory Journal</i> , 2002, 19, 146-150.	6.7	24
180	Response of Automatic Continuous Positive Airway Pressure Devices to Different Sleep Breathing Patterns. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2002, 166, 469-473.	5.6	106

#	ARTICLE	IF	CITATIONS
181	Potential Rebreathing After Continuous Positive Airway Pressure Failure During Sleep. <i>Chest</i> , 2002, 121, 196-200.	0.8	13
182	Correction of Microrheological Measurements of Soft Samples with Atomic Force Microscopy for the Hydrodynamic Drag on the Cantilever. <i>Langmuir</i> , 2002, 18, 716-721.	3.5	161
183	Oscillatory Mechanics. , 2002, , 146-156.		0
184	Oscillatory Mechanics During Mechanical Ventilation. , 2002, , 337-347.		0
185	Scaling the Microrheology of Living Cells. <i>Physical Review Letters</i> , 2001, 87, 148102.	7.8	1,056
186	Automatic continuous positive airway pressure devices for the treatment of sleep apnea hypopnea syndrome. <i>Sleep Medicine</i> , 2001, 2, 95-98.	1.6	10
187	Forced oscillation assessment of respiratory mechanics in ventilated patients. <i>Critical Care</i> , 2001, 5, 3.	5.8	29
188	Measurement of cell microrheology by magnetic twisting cytometry with frequency domain demodulation. <i>Journal of Applied Physiology</i> , 2001, 91, 1152-1159.	2.5	136
189	Forced oscillation measurements do not affect upper airway muscle tone or sleep in clinical studies. <i>European Respiratory Journal</i> , 2001, 18, 335-339.	6.7	19
190	Evaluation of a simplified oscillation technique for assessing airway obstruction in sleep apnoea. <i>European Respiratory Journal</i> , 2001, 17, 456-461.	6.7	27
191	Performance of Nasal Prongs in Sleep Studies. <i>Chest</i> , 2001, 119, 442-450.	0.8	77
192	Relevance of Linearizing Nasal Prongs for Assessing Hypopneas and Flow Limitation During Sleep. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 163, 494-497.	5.6	64
193	Effectiveness of CPAP Treatment in Daytime Function in Sleep Apnea Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 164, 608-613.	5.6	320
194	Oscillatory Resistance Measured during Noninvasive Proportional Assist Ventilation. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2001, 164, 790-794.	5.6	31
195	New Technologies to Detect Static and Dynamic Upper Airway Obstruction During Sleep. <i>Sleep and Breathing</i> , 2001, 05, 193-206.	1.7	11
196	New Technologies to Detect Static and Dynamic Upper Airway Obstruction During Sleep. <i>Sleep and Breathing</i> , 2001, 5, 193-206.	1.7	6
197	Noninvasive assessment of respiratory resistance in severe chronic respiratory patients with nasal CPAP. <i>European Respiratory Journal</i> , 2000, 15, 314.	6.7	32
198	A simplified method for monitoring respiratory impedance during continuous positive airway pressure. <i>European Respiratory Journal</i> , 2000, 15, 185-191.	6.7	14

#	ARTICLE	IF	CITATIONS
199	Mechanical properties of cultured human airway smooth muscle cells from 0.05 to 0.4 Hz. Journal of Applied Physiology, 2000, 89, 1619-1632.	2.5	146
200	Evaluation of a method for assessing respiratory mechanics during noninvasive ventilation. European Respiratory Journal, 2000, 16, 704.	6.7	18
201	Clinical Application of the Forced Oscillation Technique for CPAP Titration in the Sleep Apnea/Hypopnea Syndrome. American Journal of Respiratory and Critical Care Medicine, 1999, 160, 1550-1554.	5.6	51
202	Sham continuous positive airway pressure for placebo-controlled studies in sleep apnoea. Lancet, The, 1999, 353, 1154.	13.7	77
203	Assessment of bronchial reactivity by forced oscillation admittance avoids the upper airway artefact. European Respiratory Journal, 1999, 13, 761.	6.7	27
204	Forced oscillation total respiratory resistance and spontaneous breathing lung resistance in COPD patients. European Respiratory Journal, 1999, 14, 172.	6.7	28
205	Flow-dependent Positive Airway Pressure to Maintain Airway Patency in Sleep Apnea/Hypopnea Syndrome. American Journal of Respiratory and Critical Care Medicine, 1998, 157, 1855-1863.	5.6	23
206	Assessment of Airflow Obstruction during CPAP by Means of Forced Oscillation in Patients with Sleep Apnea. American Journal of Respiratory and Critical Care Medicine, 1998, 157, 1526-1530.	5.6	85
207	Importance of the Pulse Oximeter Averaging Time When Measuring Oxygen Desaturation in Sleep Apnea. Sleep, 1998, 21, 386-390.	1.1	60
208	Accuracy of thermistors and thermocouples as flow-measuring devices for detecting hypopnoeas. European Respiratory Journal, 1998, 11, 179-182.	6.7	115
209	Nasal prongs in the detection of sleep-related disordered breathing in the sleep apnoea/hypopnoea syndrome. European Respiratory Journal, 1998, 11, 880-883.	6.7	59
210	Forced oscillation technique for the evaluation of severe sleep apnoea/hypopnoea syndrome: a pilot study. European Respiratory Journal, 1998, 11, 1128-1134.	6.7	52
211	Respiratory mechanics in ventilated COPD patients: forced oscillation versus occlusion techniques. European Respiratory Journal, 1998, 12, 170-176.	6.7	36
212	Evaluation of nasal prongs for estimating nasal flow.. American Journal of Respiratory and Critical Care Medicine, 1997, 155, 211-215.	5.6	159
213	Inspiratory dynamic obstruction detected by forced oscillation during CPAP. A model study.. American Journal of Respiratory and Critical Care Medicine, 1997, 155, 952-956.	5.6	60
214	A system to generate simultaneous forced oscillation and continuous positive airway pressure. European Respiratory Journal, 1997, 10, 1349-1353.	6.7	55
215	Analog circuit for real-time computation of respiratory mechanical impedance in sleep studies. IEEE Transactions on Biomedical Engineering, 1997, 44, 1156-1159.	4.2	16
216	Effect of expiratory flow limitation on respiratory mechanical impedance: a model study. Journal of Applied Physiology, 1996, 81, 2399-2406.	2.5	30

#	ARTICLE	IF	CITATIONS
217	Assessment of respiratory pressure-volume nonlinearity in rabbits during mechanical ventilation. <i>Journal of Applied Physiology</i> , 1996, 80, 1637-1648.	2.5	14
218	Servocontrolled generator to measure respiratory impedance from 0.25 to 26 Hz in ventilated patients at different PEEP levels. <i>European Respiratory Journal</i> , 1995, 8, 1222-1227.	6.7	39
219	Dynamic elastance and tissue resistance of isolated liquid-filled rat lungs. <i>Journal of Applied Physiology</i> , 1995, 79, 1595-1600.	2.5	11
220	Dynamic viscoelastic nonlinearity of lung parenchymal tissue. <i>Journal of Applied Physiology</i> , 1995, 79, 348-356.	2.5	66
221	Human lung impedance from spontaneous breathing frequencies to 32 Hz. <i>Journal of Applied Physiology</i> , 1994, 76, 1176-1183.	2.5	17
222	Lung tissue rheology and 1/f noise. <i>Annals of Biomedical Engineering</i> , 1994, 22, 674-681.	2.5	82
223	Effects of Halothane and Isoflurane on Ventilation and Occlusion Pressure. <i>Anesthesiology</i> , 1994, 81, 563-571.	2.5	29
224	Respiratory input impedance up to 256 Hz in healthy humans breathing foreign gases. <i>Journal of Applied Physiology</i> , 1993, 75, 307-320.	2.5	10
225	Optimized estimation of respiratory impedance by signal averaging in the time domain. <i>Journal of Applied Physiology</i> , 1992, 73, 1181-1189.	2.5	8
226	Optimised algorithm to compute respiratory impedance by pseudorandom forced excitation. <i>Medical and Biological Engineering and Computing</i> , 1991, 29, 615-617.	2.8	2
227	Time-domain digital filter to improve signal-to-noise ratio in respiratory impedance measurements. <i>Medical and Biological Engineering and Computing</i> , 1991, 29, 18-24.	2.8	16
228	Ventilation-Perfusion Mismatch after Methacholine Challenge in Patients with Mild Bronchial Asthma. <i>The American Review of Respiratory Disease</i> , 1991, 144, 88-94.	2.9	57
229	Respiratory input impedance in anesthetized paralyzed patients. <i>Journal of Applied Physiology</i> , 1990, 69, 1372-1379.	2.5	78
230	Human respiratory impedance from 8 to 256 Hz corrected for upper airway shunt. <i>Journal of Applied Physiology</i> , 1989, 67, 1973-1981.	2.5	34
231	Analysis of the dynamic characteristics of pressure transducers for studying respiratory mechanics at high frequencies. <i>Medical and Biological Engineering and Computing</i> , 1989, 27, 531-537.	2.8	18
232	A correction procedure for the asymmetry of differential pressure transducers in respiratory impedance measurements. <i>IEEE Transactions on Biomedical Engineering</i> , 1989, 36, 1137-1140.	4.2	35
233	A least squares algorithm to determine the mechanical time constant distribution of the lung during forced expiration. <i>International Journal of Bio-medical Computing</i> , 1989, 24, 29-40.	0.5	3
234	A new estimator to minimize the error due to breathing in the measurement of respiratory impedance. <i>IEEE Transactions on Biomedical Engineering</i> , 1988, 35, 1001-1005.	4.2	24

#	ARTICLE	IF	CITATIONS
235	Density dependence of respiratory input and transfer impedances in humans. <i>Journal of Applied Physiology</i> , 1988, 65, 928-933.	2.5	17
236	Effect of body posture on respiratory impedance. <i>Journal of Applied Physiology</i> , 1988, 64, 194-199.	2.5	69
237	Optical method for determining the frequency response of pressure-measurement systems in respiratory mechanics. <i>Medical and Biological Engineering and Computing</i> , 1986, 24, 78-82.	2.8	9
238	A simple method of evaluating the polychromatic modulation transfer function for photographic systems. <i>Journal of Optics</i> , 1983, 14, 25-28.	0.3	5
239	Evaluation of polychromatic image quality by means of transfer function. <i>Journal of Optics</i> , 1982, 13, 283-288.	0.3	9